

Amendments to the Claims

The following Listing of Claims will replace all prior versions and listings of claims in the application.

Listing of Claims

Please amend claims 1, 3-6, 9-11, 13-29, and 32-37 as follows:

1. (Currently Amended) A method for associating a file type of a file with one or more programs, the method comprising the steps of:

- (a) receiving intercepting a request from a process executing on a computing device configured with an isolation environment, the isolation environment comprising a user isolation layer and an application isolation layer, to store in a native configuration store residing on a memory element provided by the computing device file type association information associated with a system scope;
- (b) determining from the request an application program associated with one of either of a user isolation scope, an application isolation scope and a system scope to be associated with a file type in the configuration store; and
- (c) writing to the configuration store, specific to one of either of the user isolation scope, the application isolation scope and the system scope, an association of the file type with a chooser tool.

2. (Original) The method of claim 1, wherein step (a) further comprises intercepting the request by one of a user mode hooking mechanism, a kernel mode hooking mechanism, a file system filter driver, and a mini-driver.

3. (Currently Amended) The method of claim 1, wherein the request comprises updating an entry of a file type association in the native configuration store.

4. (Currently Amended) The method of claim 1, wherein the request comprises creating a new entry of a file type association in the native configuration store.

5. (Currently Amended) The method of claim 1, wherein the chooser tool, executing in the context of an application isolation scope and a user isolation scope, provides a user interface listing one or more application programs associated with one of either of the user isolation scope, the application isolation scope and a native isolation scope to invoke to access a file associated with the file type.

6. (Currently Amended) The method of claim 1, further comprising the step of: (d) providing an association of the application program associated with one of either of the user isolation scope, the application isolation scope and the system scope with the file type in a configuration store specific to the chooser tool configuration store.

7. (Original) The method of claim 6, wherein the configuration store comprises the chooser tool configuration store.

8. (Original) The method of claim 1, wherein the configuration store comprises a registry database.

9. (Currently Amended) The method of claim ~~4~~ 6, further comprising the step of: (e) selecting, by a process executing on behalf of a user and in the context of an application isolation scope and a user isolation scope, a file including a file type associated with the file type to invoke an application program, and invoking the chooser tool in response to selecting the file.

10. (Currently Amended) The method of claim ~~4~~ 9, further comprising the step of: (f) displaying by the chooser tool a list of one or more application programs associated with the file type, wherein the chooser tool executes in the context of one of either of an application isolation scope and a user isolation scope, and the list is specific to one of either of the user isolation scope and one or more application isolation scopes.

11. (Currently Amended) The method of claim ~~4~~ 10, further comprising the step of: (g) invoking, by the chooser tool, a selected application program in one of a system scope, an application isolation scope, and a user isolation scope, and wherein the application program is selected from the list specific to one of either of the user isolation scope and the one or more application isolation scopes.

12. (Original) The method of claim 1, wherein one of the application program, the file, the configuration store, and the chooser tool are associated with one of a system scope, an application isolation scope, and a user isolation scope within an isolation environment.

13. (Currently Amended) The method of claim 1, wherein step (c) further comprises writing to the native configuration store an association of the chooser tool is as the default application program associated with the file type.

14. (Currently Amended) The method of claim 1, further comprising associating a second file type with the chooser tool in the native configuration store.

15. (Currently Amended) A ~~method~~ computer readable medium encoded with computer readable program code for invoking an application program associated with a file type, the ~~method~~ program code comprising ~~the steps of:~~

instructions for selecting, by a process executing on behalf of a user in an isolation environment, a file to invoke an application program, the file associated with including a file type, the isolation environment comprising an application isolation layer and a user isolation layer;

instructions for obtaining, in response to selecting the file, a reference to a chooser tool associated with the file type from a configuration store, the configuration store comprising file type association information; and

instructions for invoking the chooser tool in response to selecting the file, the chooser tool displaying a list of one or more application programs to access the selected file, wherein the one or more application programs are associated with one of either of a user isolation scope, one or more application isolation scopes, and a system scope.

16. (Currently Amended) The ~~method~~ computer readable medium of claim 15, ~~wherein step (a) further comprises~~ comprising instructions for selecting the file to invoke the application program by clicking on the file one or more times.

17. (Currently Amended) The ~~method~~ computer readable medium of claim 15, ~~wherein step (b) further comprises~~ comprising instructions for obtaining a list, specific to one of either of a user

isolation scope and one or more application isolation scopes, of one or more application programs associated with the file type of the selected file from a chooser tool configuration store.

18. (Currently Amended) The ~~method~~ computer readable medium of claim 17, ~~wherein step (e)~~ further ~~comprises~~ comprising instructions for the chooser tool displaying at least one of the one or more application programs associated with the file type obtained from the chooser tool configuration store, wherein the one or more application programs are displayed responsive to an isolation scope associated with the process acting on behalf of the user.

19. (Currently Amended) The ~~method~~ computer readable medium of claim 17, wherein the configuration store comprises the chooser tool configuration store.

20. (Currently Amended) The ~~method~~ computer readable medium of claim 15, wherein the configuration store comprises a registry database.

21. (Currently Amended) The ~~method~~ computer readable medium of claim 15, further comprising instructions for the step of: (d) invoking an application program selected from the list displayed by the chooser tool.

22. (Currently Amended) The ~~method~~ computer readable medium of claim 21, further comprising instructions for invoking the selected application program in one of a system layer scope, application isolation layer scope and a user isolation layer scope.

23. (Currently Amended) The ~~method~~ computer readable medium of claim 15, wherein one of the application program, the file, the configuration store and the chooser tool are associated with one of a system scope, an application isolation scope, and a user isolation scope within an isolation environment.

24. (Currently Amended) The ~~method~~ computer readable medium of claim 15, wherein the chooser tool is the default application program associated with the file type in the native configuration store.

25. (Currently Amended) A system for invoking a program associated with a file type, the system comprising:

computer-readable program means for a redirector obtaining a request from a process executing on a computing device including an isolation environment to store file type association information in a native configuration store, and determining from the request a file type to be associated with an application program in the configuration store, wherein the isolation environment comprises an application isolation layer and a user isolation layer;

computer-readable program means for a chooser tool configured to provide providing a selection of one or more application programs associated with one of either of an application isolation scope and a user isolation scope to invoke for accessing a file associated with the file type; and

computer-readable program means for the redirector writing to the configuration store to associate the file type with the chooser tool.

26. (Currently Amended) The system of claim 25, wherein the computer-readable program means for obtaining a request ~~redirector~~ comprises one of the following to intercept the request: a user mode hooking mechanism, a kernel mode hooking mechanism, a file system filter driver, and a mini-driver.

27. (Currently Amended) The system of claim 25, wherein the computer-readable program means for providing a selection of one or more application programs ~~chooser tool~~ comprises a user interface to display the selection of the one or more application programs.

28. (Currently Amended) The system of claim 25, further comprising a chooser tool configuration store for storing an entry associating the file type with the application program of the request.

29. (Currently Amended) The system of claim 28, wherein the computer-readable program means for obtaining a request ~~redirector~~ initiates an action to write the entry to the chooser tool configuration store.

30. (Original) The system of claim 28, wherein the configuration store comprises the chooser tool configuration store.

31. (Original) The system of claim 25, wherein the configuration store comprises a registry database.

32. (Currently Amended) The system of claim 28, wherein the computer-readable program means for providing a selection of one or more application programs ~~chooser tool~~ displays at least one application program associated with the file type obtained from the chooser tool configuration store, the at least one application program responsive to an isolation scope associated with the computer-readable program means.

33. (Currently Amended) The system of claim 25, wherein the computer-readable program means for providing a selection of one or more application programs ~~chooser tools~~ invokes an application program selected from the list, the list specific to an isolation scope associated with the computer-readable program means.

34. (Currently Amended) The system of claim 25, further comprising an isolation environment for isolating access by the application program to native resources provided by an operating system.

35. (Currently Amended) The system of claim 34, wherein the isolation environment comprises one of a system layer scope, an application isolation layer scope, and a user isolation layer scope.

36. (Currently Amended) The system of claim 35, wherein one of the application program, the file, the configuration store, and the computer-readable program means for providing a selection of one or more application program execute in one of the system layer scope, the application isolation layer scope, and the user isolation layer scope ~~comprises one of the application program, the file, the configuration store, and the chooser tool.~~

37. (Currently Amended) The system of claim 35, wherein the computer-readable program means for providing a selection of one or more application programs ~~chooser tool~~ invokes the

selected application program in one of the system layer scope, the application isolation layer scope, and the user isolation layer. scope